## Claims

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- 1. A contrast agent comprising microbubble-generating carbohydrate microparticles having a surfactant admixed within the microparticulate structure, with the proviso that the surfactant is not a  $C_{10-20}$  fatty acid.
- A contrast agent as claimed in claim 1 in which the
  carbohydrate is a water-soluble pentose, hexose,
  disaccharide, polysaccharide or sugar alcohol.
  - 3. A contrast agent as claimed in claim 2 in which the carbohydrate is galactose.
  - 4. A contrast agent as claimed in any of the preceding claims in which the surfactant is selected from straight chain aliphatic carboxylic acids and salts, sorbitan esters and mono- and di-glycerides thereof; aralkanoic acids and salts thereof; steroid acids; sterols;
- acids and salts thereof; steroid acids; sterols; straight chain aliphatic alcohols; phospholipids; alkali metal alkyl sulphates and sulphonated esters; polyoxyethylene-polyoxypropylene copolymers; polyoxyethylated sorbitan esters and mixtures of any of the foregoing.
  - 5. A contrast agent as claimed in any of the preceding claims in which the surfactant comprises a lipophilically modified carbohydrate.
  - 6. A contrast agent as claimed in any of claims 1 to 4 in which the surfactant comprises carbohydrate-containing liposomes.
- 7. A contrast agent as claimed in any of the preceding claims in which the surfactant is present in an amount of 0.1-2.0% w/w relative to the microparticulate

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carbohydrate.

- 8. A contrast agent as claimed in any of the preceding claims in which the microparticles are aggregates having an aggregate size of 30-50 micrometres of microparticles having a particle size of 1-10 micrometres.
- 9. A process for preparing a contrast agent as claimed in claim 1 which comprises (i) either mixing solutions of the carbohydrate and surfactant and removing the solvent(s) therefrom or mixing a solution of the carbohydrate with a liposome-forming material and removing the solvent therefrom and (ii) micronising the resulting mixture to yield the desired microparticles.

10. A process as claimed in claim 9 in which the mixture is micronised by ball-milling.

- 11. Use of a contrast agent as claimed in any of claims20 1 to 8 in diagnostic imaging.
  - 12. Use of a contrast agent as claimed in any of claims 1 to 8 in diagnostic ultrasonic imaging.
- 25 13. Use of a contrast agent as claimed in any of claims 1 to 8 in magnetic resonance imaging.